#4

SEQUENCE LISTING

<110> Gellerfors, Par
      Fogh, Jens

<120> PRODUCTION OF rhPBGD AND NEW THERAPEUTIC
      METHODS FOR TREATING PATIENTS WITH ACUTE INTERMITTENT
      PORPHYRIA (AIP) AND OTHER PORPHYRIC DISEASES

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<210> 7
<211> 1034
<212> DNA
<213> Homo sapiens
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accaaggagc ttgaacatgc cctggagaag aatgaagtgg acctggttgt tcactccttg      240
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aaccctcatg atgctgttgt cttcacccaa aatttgttgg gaagaccta gaaaccctgc      360
cagagaagag tgtggtggga accagctccc tgcgaagagc agcccagctg cagagaaagt      420
tcccgcatct ggagttcagg agtattcggg gaaacctcaa cacccggctt cggaagctgg      480
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<210> 8
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<211> 1035
<212> DNA
<213> Homo sapiens

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aaggacctgc ccactgtgct tcctcctggc ttcaccatcg gagccatctg caagcgggaa     300
aaccctcatg atgctgttgt cttttcaccca aaatttgttg ggaagaccct agaaaccctg     360
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<210> 9
<211> 1035
<212> DNA
<213> Homo sapiens

<400> 9
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aaggacctgc ccactgtgct tcctcctggc ttcaccatcg gagccatctg caagcgggaa     300
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<210> 10
<211> 1034
<212> DNA
<213> Homo sapiens

<400> 10
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accacagggg acaagattct tgatactgca ctctctaaga ttggagagaa aagcctgttt     180
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ccagagaaga gtgtggtggg aaccagctcc ctgcgaagag cagcccagct gcagagaaag     420
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<210> 11
<211> 1035
<212> DNA
<213> Homo sapiens

<400> 11
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<210> 12
<211> 3988
<212> DNA
<213> Homo sapiens

<400> 12
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<210> 13
<211> 1260
<212> DNA
<213> Homo sapiens

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<210> 14
<211> 32
<212> DNA
<213> Homo sapiens

<400> 14
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<210> 15
<211> 32
<212> DNA
<213> Homo sapiens

<400> 15
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<210> 16
<211> 22
<212> DNA
<213> Homo sapiens

<400> 16
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<210> 17
<211> 22
<212> DNA
<213> Homo sapiens

<400> 17
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ctaaagggaa caaaagctgg ag                                              22
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<210> 18
<211> 20
<212> DNA
<213> Homo sapiens

<400> 18
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<210> 19
<211> 20
<212> DNA
<213> Homo sapiens

<400> 19
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<210> 20
<211> 20
<212> DNA

<213> Homo sapiens

<400> 20
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<210> 21
<211> 993
<212> DNA
<213> Homo sapiens

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<210> 22
<211> 330
<212> PRT
<213> Homo sapiens

<400> 22
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 Tyr Pro Ile Phe Val Thr Asp Val Pro Asp Asp Ile Gln Pro Ile Thr
             35   40   45
 Ser Leu Pro Gly Val Ala Arg Tyr Gly Val Lys Arg Leu Glu Glu Met
         50   55   60
 Leu Arg Pro Leu Val Glu Glu Gly Leu Arg Cys Val Leu Ile Phe Gly
 65   70   75   80
 Val Pro Ser Arg Val Pro Lys Asp Glu Arg Gly Ser Ala Ala Asp Ser
                 85   90   95
 Glu Glu Ser Pro Ala Ile Glu Ala Ile His Leu Leu Arg Lys Thr Phe
                 100   105   110
 Pro Asn Leu Leu Val Ala Cys Asp Val Cys Leu Cys Pro Tyr Thr Ser
             115   120   125
 His Gly His Cys Gly Leu Leu Ser Glu Asn Gly Ala Phe Arg Ala Glu
         130   135   140
 Glu Ser Arg Gln Arg Leu Ala Glu Val Ala Leu Ala Tyr Ala Lys Ala
 145   150   155   160
 Gly Cys Gln Val Val Ala Pro Ser Asp Met Met Asp Gly Arg Val Glu
                 165   170   175
 Ala Ile Lys Glu Ala Leu Met Ala His Gly Leu Gly Asn Arg Val Ser
                 180   185   190
 Val Met Ser Tyr Ser Ala Lys Phe Ala Ser Cys Phe Tyr Gly Pro Phe
             195   200   205
 Arg Asp Ala Ala Lys Ser Ser Pro Ala Phe Gly Asp Arg Arg Cys Tyr
         210   215   220

Gln Leu Pro Pro Gly Ala Arg Gly Leu Ala Leu Arg Ala Val Asp Arg
225   230   235   240
Asp Val Arg Glu Gly Ala Asp Met Leu Met Val Lys Pro Gly Met Pro
                245   250   255
Tyr Leu Asp Ile Val Arg Glu Val Lys Asp Lys His Pro Asp Leu Pro
                260   265   270
Leu Ala Val Tyr His Val Ser Gly Glu Phe Ala Met Leu Trp His Gly
                275   280   285
Ala Gln Ala Gly Ala Phe Asp Leu Lys Ala Ala Val Leu Glu Ala Met
            290   295   300
Thr Ala Phe Arg Arg Ala Gly Ala Asp Ile Ile Ile Thr Tyr Tyr Thr
305   310   315   320
Pro Gln Leu Leu Gln Trp Leu Lys Glu Glu
                325   330